# IN THE CLAIMS

## Listing of Claims:

Claim 1 (currently amended):    A method for creating [[an]] two or more XML documents document for publishing using an object dependency graph, the method comprising:

~~defining an XML document based upon one or more reusable content objects, whereby at least one of the content objects includes at least one relationship with another content object and the relationship has been identified with at least one graph;~~

~~building the XML document so as to form to an aggregate XML document which represents a self-contained accumulation of the one or more content objects in accordance with the at least one relationship; and~~

~~invoking an XSL transformation engine to produce one or more viewable output pages~~

defining a first XML document and a second XML document based upon one or more reusable content objects, whereby at least one of the content objects includes at least one object dependency graph that identifies content object dependency across the first XML document and the second XML document using one or more edges denoting relationships between one or more of the content objects so as to provide synchronization of the content objects across the first XML document and the second XML document;

building the first XML document so as to form a self-contained accumulation of the one or more content objects in accordance with the object dependency graph;

building the second XML document so as to form a self-contained accumulation of the one or more content objects in accordance with the object dependency graph; and

in response to a value of the content objects being modified, a change is made across one or more output pages concurrently by automatically invoking an XSL transformation engine so as to produce the output pages.

Claim 2 (currently amended): The method according to claim 1, wherein the step of invoking an XSL transformation engine includes ~~invoking an XSL transformation engine to produce~~ producing viewable output pages in HTML.

Claim 3 (currently amended): The method according to claim 1, wherein the step of defining [[an]] a first XML document and a second XML document based upon one or more reusable content objects includes defining [[an]] the first XML document and the second XML document based upon one or more content objects, the objects comprising at least one of a fragment and a [[or]] servable.

Claim 4 (currently amended): The method according to claim 3, wherein the step of ~~defining an XML document based upon~~ one or more reusable content objects comprise ~~comprising~~ at least one content [[of]] fragment which is a self-contained fragment.

Claim 5 (currently amended): The method according to claim 3, wherein the step of ~~defining an XML document based upon~~ one or more reusable content objects comprises ~~comprising~~ at least one content [[of]] fragment which is a compound fragment.

Claim 6 (currently amended): The method according to claim 3, further comprising: ~~the step of~~ publishing the one or more viewable output pages.

Claim 7 (currently amended): The method according to claim 6, wherein [[in]] the step of publishing includes at least one of:
      publishing the one or more viewable output pages as Web pages; and [[or]]
      publishing the one or more viewable output pages to other media or devices.

Claim 8 (currently amended): The method according to claim 1, wherein the step of defining [[an]] a first XML document and a second XML document based on one or

more reusable content objects comprises defining the first XML document and the second XML document based on comprising one or more fragments including compound objects and further comprising includes the sub-steps of comprising:

partitioning at least some of the content fragment of the plurality of fragments into a plurality of group groups such that if two compound fragements fragments are constructed from at least one common changed fragment, then the compound fragments are placed in a same group; and

publishing all fragments belonging to a same group together.


Claim 9 (currently amended): A method for creating two or more [[an]] XML documents document for publishing using an object dependency graph graphs, the method comprising:

identifying one or more content objects comprising servables and fragments for constructing a web page based on input received from one or more of the following:

(i) information analysis and modeling;

(ii) target audience analysis;

(iii) target device analysis; and

(iv) workflow and role analysis;

creating one or more document templates that define the structure of the servables and of the fragments;

creating one or more stylesheets that determine the presentation and layout of the information in each servable for each target audience and each target device;

saving the document template as [[a]] an XML file and saving save meta information describing each of the servables and the fragments;

updating at least one [[an]] object dependency graph that identifies content object dependency across a first XML document and a second XML document using one or more edges denoting relationships between one or more of the content objects so as to provide synchronization of the content objects across the first XML document and the second XML document based upon one or more reusable content objects, whereby at least one of the content objects includes at least one relationship with

~~another content object and the relationship has been identified with at least one graph;~~ and

~~building an XML document so as to form to an aggregate XML document which represents a self-contained accumulation of the one or more content objects in accordance with the at least one relationship~~

<u>building the first XML document so as to form a self-contained accumulation of the one or more content objects in accordance with the object dependency graph; and</u>

<u>building the second XML document so as to form a self-contained accumulation of the one or more content objects in accordance with the object dependency graph.</u>

Claim 10 (currently amended): The method according to claim 9, further comprising ~~the step of:~~

invoking an XSL transformation engine <u>automatically in response to a value of the content objects being modified,</u> to produce one or more viewable output pages.

Claim 11 (currently amended): The method according to claim 10, wherein the ~~step of~~ invoking an XSL transformation engine includes ~~invoking~~ <u>performing</u> an <u>edit to the viewable output pages</u> ~~XSL transformation engine~~.

Claim 12 (currently amended): The method according to claim 9, wherein the ~~step of~~ creating one or more document templates that define the structure of the servables and of the fragments includes ~~the sub-steps of~~:

receiving a search request from a user for searching metadata information that describes preexisting servables and fragments that can be used in creating the document <u>template</u>; and

receiving a selection from a user to include preexisting servable and fragments in the document <u>template</u> based on the metadata searched.

Claim 13 (currently amended): The method according to claim 12, further comprising ~~the sub-step of~~:

receiving a user request to create a new document template; and

creating a blank form for holding one or more content objects.

Claim 14 (currently amended): The method according to claim 12, further comprising ~~the sub-steps of~~:
   receiving a user request for <u>editing</u> ~~edit~~ a preexisting document template; and
   retrieving a preexisting document <u>template</u> according to the user request received.

Claim 15 (currently amended): The method according to claim 9, wherein the ~~step of~~ saving the document <u>template</u> as [[a]] <u>an</u> XML file and ~~save~~ <u>saving</u> meta information describing each of the servables and the fragments includes saving any attachments to the document.

Claim 16 (currently amended): The method according to claim 15, wherein the ~~step~~ saving the document <u>template</u> includes saving any attachments to the document <u>template</u> selected from the group of attachments ~~selected from the group of attachments~~ consisting of text files<u>,</u> [[;]] video files, still images, stylesheets, and multimedia data.

Claim 17 (cancelled)

Claim 18 (cancelled)

Claim 19 (currently amended): A computer readable medium containing programming instructions for execution on an information processing system [[tor]] <u>to</u> create [[an]] <u>two or more</u> XML <u>documents</u> ~~document~~ for publishing using <u>an</u> object dependency <u>graph,</u> ~~graphs~~ <u>the computer readable medium</u> comprising the programming instructions for:

~~defining an XML document based upon one or more reusable content objects, whereby at least one of the content objects includes at least one relationship with another content object and the relationship has been identified with at least one graph;~~

~~building the XML document so as to form to an aggregate XML document which represents a self-contained accumulation of the one or more content objects in accordance with the at least one relationship; and~~

~~invoking an XSL transformation engine to produce one or more viewable output pages~~

defining a first XML document and a second XML document based upon one or more reusable content objects, whereby at least one of the content objects includes at least one object dependency graph that identifies content object dependency across the first XML document and the second XML document using one or more edges denoting relationships between one or more of the content objects so as to provide synchronization of the content objects across the first XML document and the second XML document;

building the first XML document so as to form a self-contained accumulation of the one or more content objects in accordance with the object dependency graph;

building the second XML document so as to form a self-contained accumulation of the one or more content objects in accordance with the object dependency graph; and

in response to a value of the content objects being modified, a change is made across one or more output pages concurrently by automatically invoking an XSL transformation engine so as to produce the output pages.

Claim 20 (currently amended): The computer readable medium according to claim 19, wherein the ~~programming instruction of invoking an XSL transformation engine includes invoking an XSL transformation engine to produce viewable output pages in HTML~~ relationships are defined by at least one of:

a hypertext link from a first object to at least a second object; and

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at least one embedded content fragment common to two or more content objects.

Claim 21 (currently amended): The computer readable medium according to claim 19, wherein the programming instruction of defining [[an]] a first XML document and a second XML document based upon one or more reusable content objects includes defining [[an]] the first XML document and the second XML document based upon one or more content objects, the objects comprising at least one of a fragment and a [[or]] servable.

Claim 22 (currently amended): The computer readable medium according to claim 21, wherein the programming instruction of defining [[an]] a first XML document and a second XML document based upon one or more content objects, the objects comprising at least one [[of]] content fragment which is a self-contained fragment.

Claim 23 (currently amended): The computer readable medium according to claim 21, wherein the programming instruction of defining [[an]] a first XML document and a second XML document based upon one or more content objects, the objects comprising at least one [[of]] content fragment which is a compound fragment.

Claim 24 (currently amended): The computer readable medium according to claim 21, wherein the programming instruction includes [[of]] publishing the one or more viewable output pages.

Claim 25 (currently amended): The computer readable medium according to claim 24 [[25]], wherein the programming instruction of publishing includes at least one of:
  publishing the one or more viewable output pages as Web pages; and [[or]]
  publishing the one or more viewable output pages to other media or devices.

Claim 26 (currently amended): The computer readable medium according to claim 19, wherein the programming instruction of defining [[an]] a first XML document and a

second XML document based on one or more reusable content objects <u>comprises</u> ~~comprising~~ <u>defining the first XML document and the second XML document based on</u> one or more fragments including compound objects and further comprising ~~includes the instructions of~~:

partitioning at least some <u>of the content</u> ~~fragment of the plurality of~~ fragments into a plurality of groups such that if two <u>or more</u> compound <u>fragments</u> ~~fragements~~ are constructed from at least one common changed fragment, then the compound fragments are placed in a same group; and

publishing all fragments belonging to a same group together.